

Title (en)
Illumination light communication device

Title (de)
Kommunikationsvorrichtung mit Beleuchtungslicht

Title (fr)
Dispositif de communication de lumière d'éclairage

Publication
EP 1865631 A1 20071212 (EN)

Application
EP 07017123 A 20031023

Priority

- EP 03758809 A 20031023
- JP 2002309557 A 20021024
- JP 2002352075 A 20021204
- JP 2003004560 A 20030110
- JP 2003037746 A 20030217
- JP 2003070673 A 20030314
- JP 2003082278 A 20030325
- JP 2003084819 A 20030326
- JP 2003161859 A 20030606
- JP 2003177816 A 20030623
- JP 2003323052 A 20030916

Abstract (en)
An emergency lamp (701) comprises a battery (711) and turns a light source on while in an emergency without electric power supplied from an external power source, wherein an LED is used as the light source.

IPC 8 full level
F21S 8/08 (2006.01); **G08B 27/00** (2006.01); **G08G 1/09** (2006.01); **G09F 9/33** (2006.01); **G09F 13/04** (2006.01); **H04B 3/54** (2006.01); **H04B 10/114** (2013.01); **H04B 10/116** (2013.01); **H04Q 9/00** (2006.01)

CPC (source: EP KR US)
F21S 8/08 (2013.01 - KR); **G08B 27/00** (2013.01 - KR); **G09F 9/33** (2013.01 - EP US); **H04B 3/54** (2013.01 - EP KR US); **H04B 10/1141** (2013.01 - EP US); **H04B 10/1149** (2013.01 - EP US); **H04B 10/116** (2013.01 - EP KR US); **H05B 47/185** (2020.01 - EP US); **H05B 47/195** (2020.01 - EP US); **H05B 47/1965** (2024.01 - EP); **F21K 9/20** (2016.08 - EP US); **F21K 9/65** (2016.08 - EP US); **F21V 33/0052** (2013.01 - EP US); **F21Y 2115/10** (2016.08 - EP US); **H01L 25/0753** (2013.01 - EP US); **H01L 2224/48091** (2013.01 - EP US); **H01L 2224/48247** (2013.01 - EP US); **H01L 2924/3025** (2013.01 - EP US); **H04B 2203/5412** (2013.01 - EP US); **H04B 2203/5458** (2013.01 - EP US); **H05B 47/198** (2024.01 - EP); **H05B 47/199** (2024.01 - EP)

C-Set (source: EP US)
1. **H01L 2224/48091** + **H01L 2924/00014**
2. **H01L 2224/48091** + **H01L 2924/00**
3. **H01L 2924/3025** + **H01L 2924/00**

Citation (search report)

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- [Y] KOMINE T ET AL: "Integrated system of white led visible-light communication and power-line communication", PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS, 2002. THE 13TH IEEE INTERNATIONAL SYMPOSIUM ON SEPT. 15-18, 2002, PISCATAWAY, NJ, USA,IEEE, vol. 4, 15 September 2002 (2002-09-15), pages 1762 - 1766, XP010611569, ISBN: 0-7803-7589-0

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US10554308B2; WO2017113028A1

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Designated extension state (EPC)
AL LT LV MK

DOCDB simple family (publication)
US 2006056855 A1 20060316; **US 7583901 B2 20090901**; AT E372614 T1 20070915; AU 2003275606 A1 20040513; CN 101714898 A 20100526; DE 60316178 D1 20071018; DE 60316178 T2 20080605; DE 60331271 D1 20100325; DE 60336770 D1 20110526; EP 1564914 A1 20050817; EP 1564914 A4 20060125; EP 1564914 B1 20070905; EP 1855398 A1 20071114; EP 1855398 B1 20100210; EP 1858179 A1 20071121; EP 1860799 A1 20071128; EP 1860800 A1 20071128; EP 1860801 A1 20071128; EP 1863203 A1 20071205; EP 1865631 A1 20071212; EP 1865631 B1 20110413; HK 1087848 A1 20061020; HK 1129164 A1 20091120; KR 100970034 B1 20100716; KR 20050071617 A 20050707; US 2009297156 A1 20091203; US 2009297157 A1 20091203; US 2009297166 A1 20091203; US 2009297167 A1 20091203; US 2009310976 A1 20091217; US 7929867 B2 20110419; WO 2004038962 A1 20040506

DOCDB simple family (application)
US 53225005 A 20050929; AT 03758809 T 20031023; AU 2003275606 A 20031023; CN 200910179120 A 20031023; DE 60316178 T 20031023; DE 60331271 T 20031023; DE 60336770 T 20031023; EP 03758809 A 20031023; EP 07016825 A 20031023; EP 07017122 A 20031023; EP 07017123 A 20031023; EP 07017124 A 20031023; EP 07017125 A 20031023; EP 07017126 A 20031023; EP 07017127 A 20031023; HK 06107882 A 20060714; HK 09106578 A 20090720; JP 0313539 W 20031023; KR 20057007071 A 20031023; US 46122309 A 20090805; US 46122509 A 20090805; US 46122609 A 20090805; US 46122709 A 20090805; US 46122909 A 20090805